



PORTABLE CD-R/CD-RW STEREO SYSTEM

OWNER'S MANUAL

SB230/SB231

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WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, has changed its performance, or has been dropped.
14. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the apparatus.
15. Do not overload wall outlet. Use only power source as indicated.
16. Use replacement parts as specified by the manufacturer.
17. The product may be mounted to a wall only if recommended by the manufacturer.
18. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks.

INFORMATION:

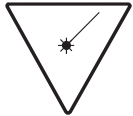
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

LASER SAFETY: This unit employs a laser. Only qualified service personnel should attempt to service this device due to possible eye injury.

CAUTION: USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

WARNING: DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**DANGER:**

Invisible and hazardous laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

Emerson Radio Corp. has produced this audio product under license from Nickelodeon. We have taken great care to make sure your unit was in perfect working order when it left our factory.

It has been designed to give you many years of enjoyment and trouble free operation. Read this manual before operating this unit to become familiar with its features. In the event you require technical assistance, please contact the Emerson Radio Customer Service hotline at 1-800-898-9020. Retain this manual for future reference.

NOTES:

- Please avoid using this unit in places of high temperature or humidity over prolonged periods of time as damage may occur.
- Exposure to direct sunlight in places such as car interiors may cause the unit to become warped and/or lead to malfunctioning.
- Avoid using or storing this unit in dusty or sandy locations.

For future reference, record the serial number in the space provided.

Model No: SB230/SB231

Serial No: _____

PREPARATION FOR USE

Unpacking and Setup

- Carefully remove the unit from the display carton and remove all packing material from the unit itself.
- The detachable AC power cord is packed in the carton separately from the unit. Make sure that the AC power cord is not accidentally discarded with the carton or packing material.
- Press the OPEN/CLOSE area to open the CD compartment door. There is a white card in the CD compartment which is intended to prevent the CD pickup from moving during shipment of the product. Remove this card from the CD compartment before use.

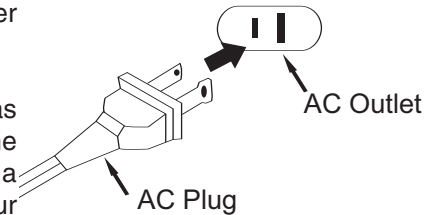
Power Sources

This portable audio system is designed to operate on either 120V AC 60Hz or by using six (6) 'C' batteries (for CD and radio operation) and two (2) 'AA' batteries (for clock operation); batteries not included. Attempting to operate this unit from any other power source may cause damage to the unit, which is not covered by your warranty.

AC Operation

Unwind the AC cord and extend it to its full length. Insert the small end of the AC cord into the AC socket on the rear of the unit. Insert the other end of the AC cord into any convenient 120V 60Hz household outlet.

Please note that this unit is equipped with a polarized AC plug which has one blade wider than the other. This is a safety feature to reduce the likelihood of electric shock. This polarized AC plug will only fit in a polarized AC outlet. If you find that you cannot insert this plug into your outlet, you may have an obsolete non-polarized outlet. Please do not try to defeat this safety feature by using a non-polarized adapter or by filing the wider blade to make it fit into your outlet. If this plug does not fit into your outlet, you should contact a qualified licensed electrician to replace your obsolete outlet.

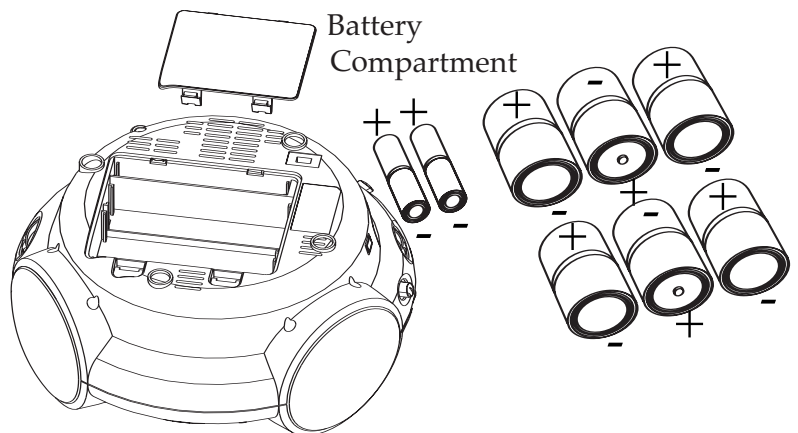


Battery Installation

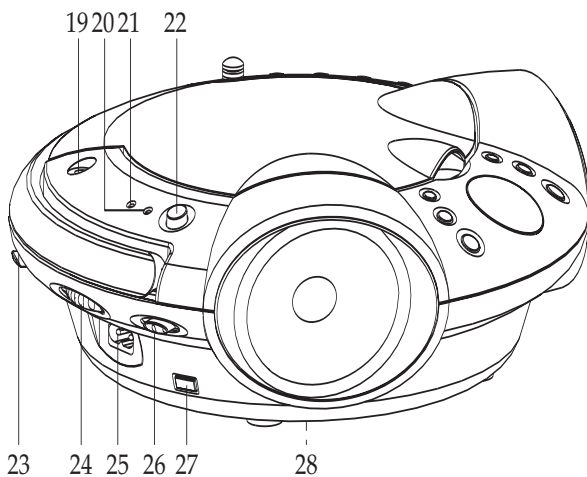
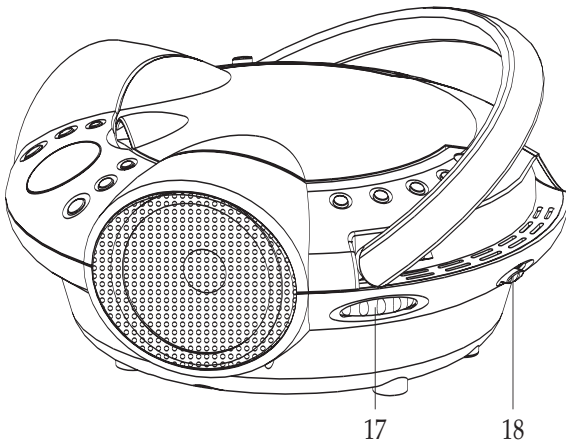
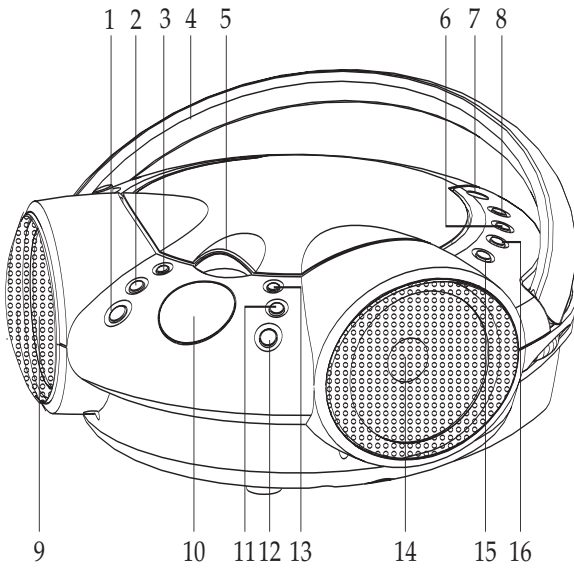
To use this unit with battery power, remove the battery compartment on the bottom of the unit by sliding it towards the rear of the unit and lifting the battery door off. Insert six (6) 'C' and two (2) 'AA' size batteries following the diagram in the compartment.

NOTES:

- The AC power cord must be disconnected from the AC socket on the rear of the unit in order for the unit to operate on battery power.
- Two 'AA' batteries are to keep the time and alarm setting in case the main power is interrupted. The unit will function without these batteries.



LOCATION OF CONTROLS



1. STOP (■) Button
2. SKIP/Search (◀◀) Button
3. REPEAT Button
4. Carrying Handle
5. CD Door OPEN/CLOSE Tab
6. HOUR SET Button
7. FM Antenna
8. MINUTE SET Button
9. Left Speaker
10. LCD Display
11. SKIP/Search (▶▶) Button
12. PLAY/PAUSE (▶||) Button
13. PROGRAM Button
14. Right Speaker
15. ALARM SET Button
16. TIME SET Button
17. TUNING Control
18. BAND Switch
19. Headphones Jack
20. FM Stereo Indicator
21. Power Indicator
22. BASS BOOST Button
23. Power Mode (OFF/ON/AUTO) Switch
24. VOLUME Control
25. AC Socket
26. FUNCTION Switch
27. ALARM Button
28. Battery Compartment (Bottom of Unit)

LCD DISPLAY

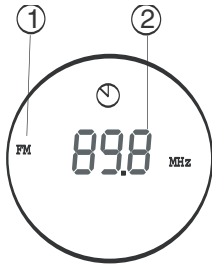


Fig 1

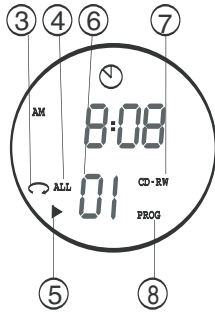


Fig 2

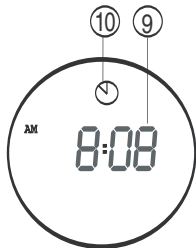


Fig 3

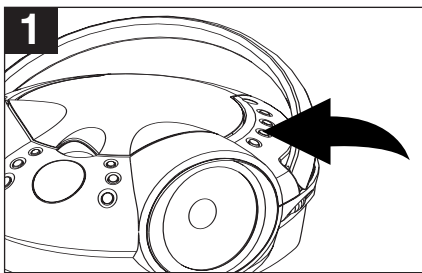
1. In the Radio mode, refer to figure 1.
 1. Band Indicator
 2. FM/AM Frequency

2. In the CD mode, refer to figure 2.
 3. Repeat Indicator will light when repeat playback is activated.
 4. Repeat All Indicator will light when repeat all playback is activated.
 5. Play Indicator
 6. Track Number Indicator
 7. CD-RW Indicator will light when a CD-RW disc is played back.
 8. PROG Indicator will light when programming tracks.

3. In the Clock mode, refer to figure 3.
 9. Time Indicator
 10. Alarm Indicator

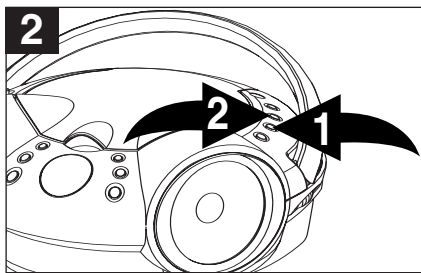
OPERATING INSTRUCTIONS

SETTING THE CLOCK

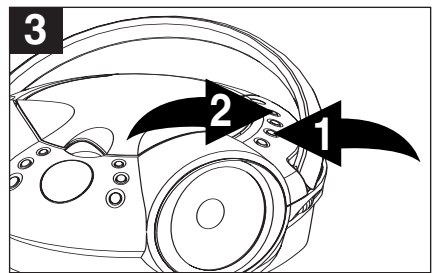


With the FUNCTION switch set to the CD or BUZZER position, press and hold the TIME SET button to enter the Time Set mode.

NOTE: Time setting cannot be done while in the Radio mode



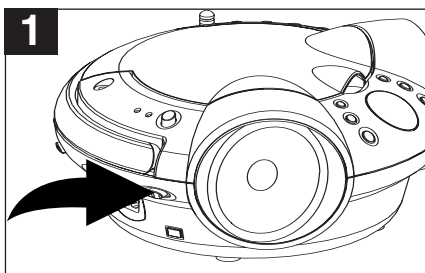
While holding the TIME SET button ①, press the HR SET button ② to adjust the hour.



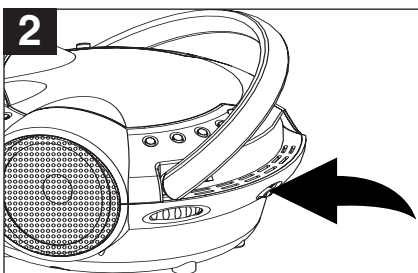
While holding the TIME SET button ①, press the MINUTE SET button ② to adjust the minute. Release all buttons to complete time setting.

OPERATING INSTRUCTIONS (CONTINUED)

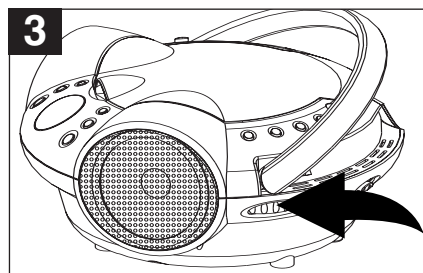
LISTENING TO THE RADIO



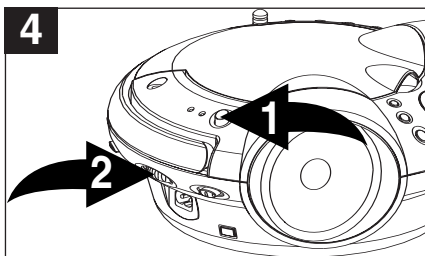
Slide the **FUNCTION** switch to the **RADIO** position; the Power indicator will light.



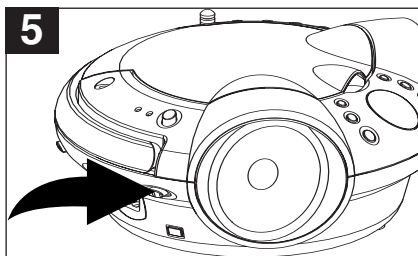
Slide the **BAND** Switch to select **AM** or **FM**.



Use the **TUNING** control to select the desired **AM** or **FM** station. When a strong **FM Stereo** signal is received, the **FM Stereo** indicator will light, if listening to **FM**.

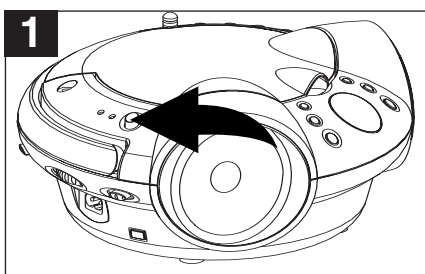


For an enhanced **Bass** sound, press the **BASS BOOST** button ❶. Adjust the **VOLUME** control ❷ as desired.



Slide the **FUNCTION** switch to the **OFF** position to turn the unit off.

BASS BOOST



With the power on, press the **BASS BOOST** button to enhance the overall **bass** sound.

HINTS FOR BETTER RECEPTION

FM - Make sure that the telescopic **FM Rod Antenna** is raised and extended to its full length. You may have to vary the direction of the antenna to find the strongest signal for each **FM** station.

AM - The **AM ferrite bar antenna** is located inside the cabinet. It may be necessary to turn the unit slightly so that the internal antenna is pointing in the direction of the **AM** transmitter. You may have to experiment to find the position that provides the strongest reception for each of your favorite **AM** stations.

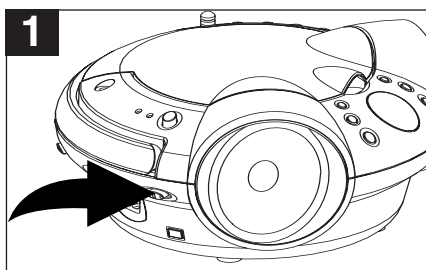
HEADPHONES JACK

For private listening, plug headphones (not included) into the **Headphones jack**. The speakers will be disconnected when the headphones are plugged in.

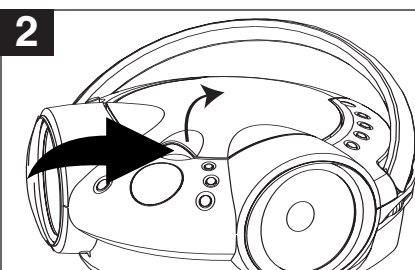
OPERATING INSTRUCTIONS (CONTINUED)

PLAYING COMPACT DISCS

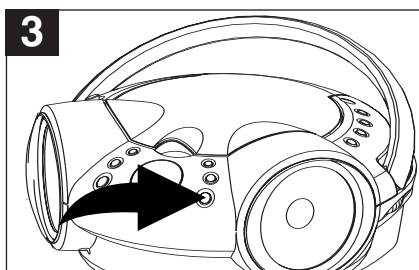
(STANDARD CD, CD-R AND CD-RW CAN BE USED)



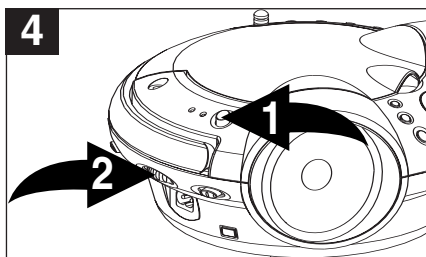
Slide the FUNCTION switch to the CD position; the Power indicator will light.



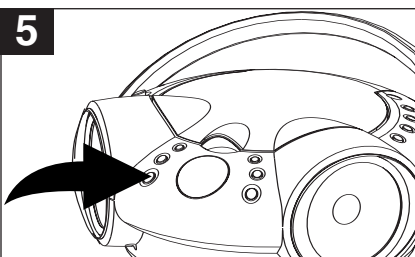
Open the CD compartment lid and insert a CD on the center spindle with the printed label facing up. Close the CD Door; the unit will read the contents and the display will then show the total tracks on the disc.



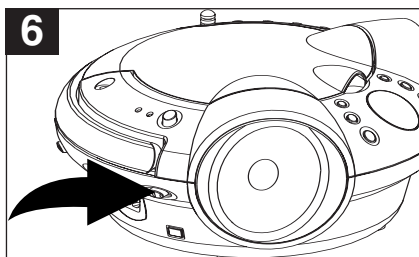
Press the PLAY/PAUSE (▶||) button to begin playback; the Play indicator will light in the display and playback will begin on track 1.



For an enhanced Bass sound, press the BASS BOOST button ①. Adjust the VOLUME control ② as desired.



When the disc is through playing, it will stop. Press the STOP (■) button to stop the disc before it is finished.



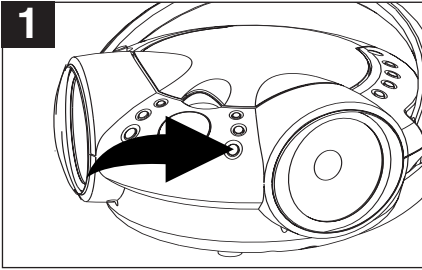
Slide the FUNCTION switch to the OFF position to turn the unit off.

NOTES:

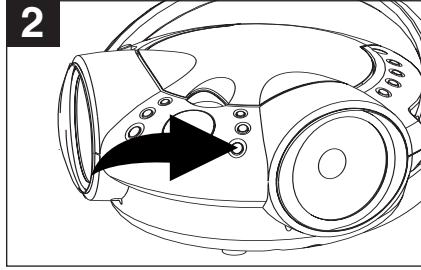
- If a disc is inserted incorrectly, dirty, damaged or not present at all, "no DISC" will appear in the display.
- As each track is played, the track number is shown in the display.
- To prevent damage to the disc, never open the CD door while the disc is rotating. Wait for the disc to stop before opening the CD door. Never touch the lens when the CD compartment door is open.
- DO NOT use the carrying handle when playing a CD. The CD should only be used on a steady surface.
- This unit will play 3" CD singles, no adapter is needed.
- The maximum playing time is 74 minutes.

OPERATING INSTRUCTIONS (CONTINUED)

CD PAUSE CONTROL

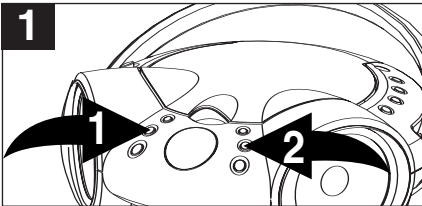


1
During CD playback, if you wish to pause the disc momentarily, press the PLAY/PAUSE (▶||) button. Playback stops but the disc continues to spin and the track number blinks in the display.

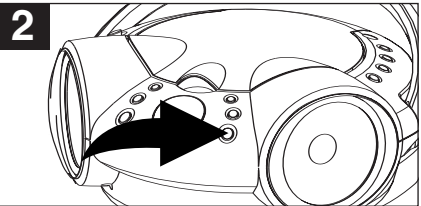


2
Press the PLAY/PAUSE (▶||) button again to release pause and resume normal CD playback. The sound returns and the track number stops blinking.

TO BEGIN PLAYBACK FROM A SPECIFIC TRACK

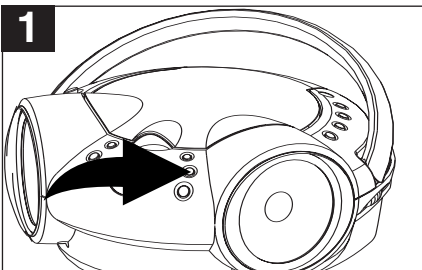


1
After you insert the disc into the CD player and the total number of tracks appear on SKIP/Search (◀◀) ① or (▶▶) ② button to select a specific track for playback.

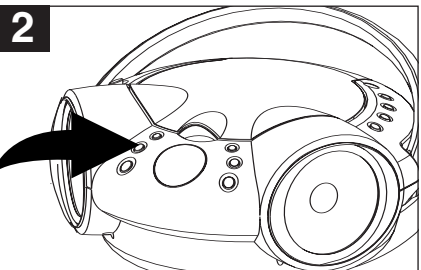


2
When the desired track number appears in the display, press the PLAY/PAUSE (▶||) button. Playback will begin on the track you selected.

FORWARD/REVERSE SKIP TRACK AND HIGH-SPEED MUSIC SEARCH



1
During playback, press the SKIP/Search (▶▶) button once to advance the player to the beginning of the next track. Press the SKIP/Search (▶▶) button repeatedly to advance the player to higher numbered tracks.

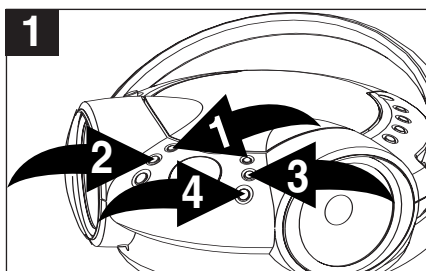


2
During playback, press the SKIP/Search (◀◀) button once to move the player back to the beginning of the playing track. Press the SKIP/Search (◀◀) button repeatedly to move the player back to lower numbered tracks.

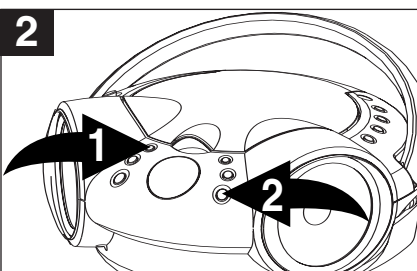
3
During playback, press and hold either the SKIP/Search (◀◀) or (▶▶) button to move the player forward or backward within a track to locate a specific musical passage. The player will move forward or backward at high speed as long as the buttons are depressed. When you release the SKIP/Search (◀◀) or (▶▶) button, normal playback will resume.

OPERATING INSTRUCTIONS (CONTINUED)

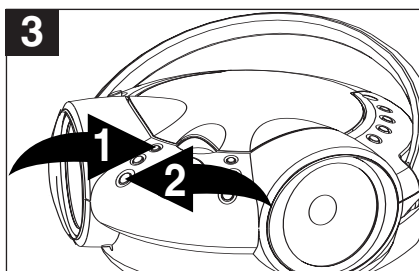
TO REPEATEDLY PLAY BACK ONE TRACK/ALL TRACKS



To repeat a single track, press the REPEAT button ❶ once while in the Stop mode; the Repeat indicator will appear in the display. Press the SKIP/Search (◀◀) ❷ or (▶▶) ❸ button to select the specific track that you wish to repeat. When the desired track number appears in the display, press the PLAY/PAUSE (▶||) button ❹ to begin playback. The specific track you selected will be repeated continuously.



To repeat all of the tracks on a disc continuously, press the REPEAT button ❶ twice while in the Stop mode; the Repeat ALL indicator will appear in the display. Press the PLAY/PAUSE (▶||) button ❷ to begin playback; all the tracks on the CD will repeat continuously.

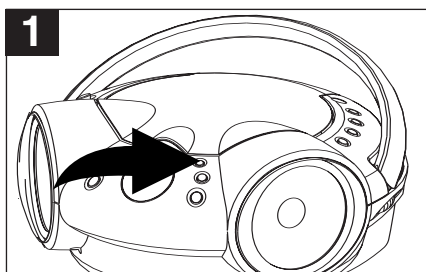


To cancel Repeat Playback, press the REPEAT button ❶ until the Repeat indicator disappears from the display, or press the STOP (■) button ❷.

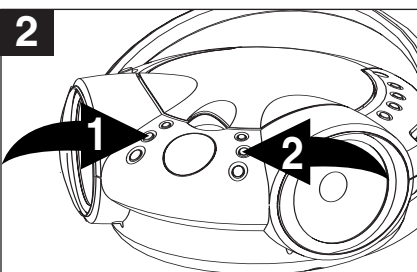
PROGRAMMED PLAYBACK

The CD player in this unit has a 32 track programmable memory that allows you to program up to 32 tracks on any disc for playback in any desired order. You may program 32 different tracks or you may also program certain tracks to play more than once.

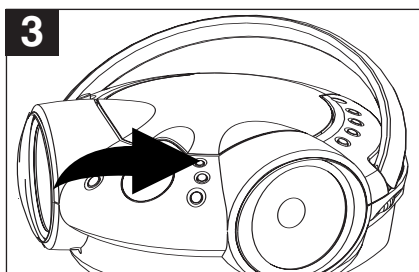
To perform programmed playback, proceed as follows:



Press the PROGRAM button; the Program indicator will blink and "01" will appear in the display.



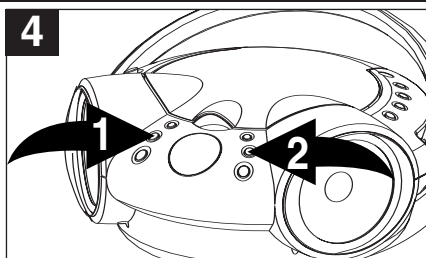
Press the SKIP/Search (◀◀) ❶ or (▶▶) ❷ button to select the first track that you wish to program.



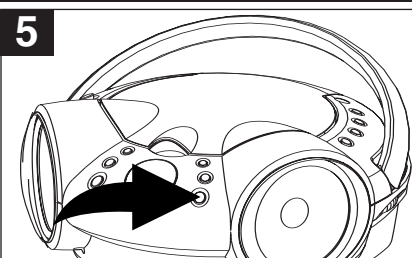
When the desired track number (Example: Track 5) appears in the display, press the PROGRAM button again.

PROGRAMMED PLAYBACK SECTION CONTINUED ON NEXT PAGE.

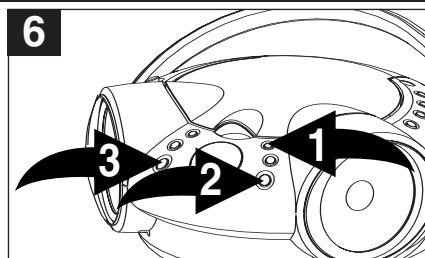
OPERATING INSTRUCTIONS (CONTINUED)



Press the SKIP/Search (◀◀) ❶ or (▶▶) ❷ button repeatedly to select a second track, the display will then show, "P-02" indicating program 2 is ready to be set. Repeat this step to program up to 32 tracks.



After programming up to 32 tracks in the CD Program Memory, press the PLAY/PAUSE (▶||) button to begin programmed playback; playback will begin on the first track that you programmed. The player will continue to play all of the tracks that you programmed in the order in which you programmed them.

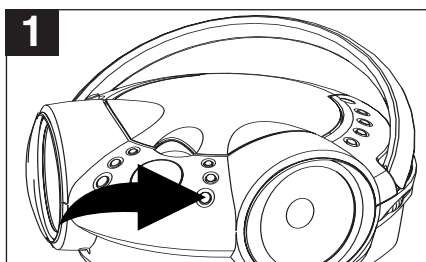


When the last programmed track has been played, the player will stop. To begin programmed playback again, press the PROGRAM button ❶, then the PLAY/PAUSE (▶||) button ❷. To cancel the Programmed Playback mode, press the PROGRAM button ❶ (while in the Stop mode) to enter the Program mode and then press the STOP (■) button ❸ to cancel.

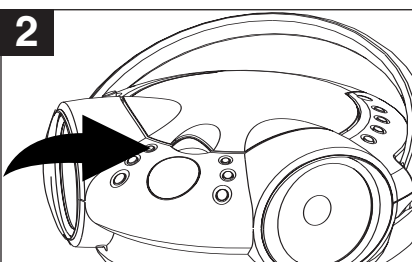
NOTES ON PROGRAMMED PLAYBACK:

- You can review the program by pressing the PROGRAM button repeatedly when playback is stopped.
- Press the STOP (■) button to stop the program before it is finished.
- You can skip through the program while it is playing using the SKIP/Search (◀◀) or (▶▶) button.

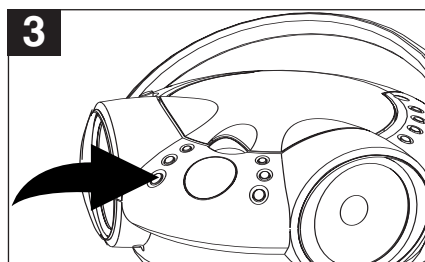
PROGRAMMED REPEAT



It is also possible to use the Program and Repeat functions together to repeat a specific program indefinitely. First, program the tracks you wish to hear in the order you wish to hear them, as described on the previous page. Then, press the PLAY/PAUSE (▶||) button to begin programmed playback.



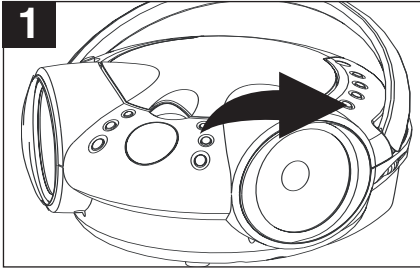
Press the REPEAT button twice; both indicators will appear in the display. The player will play the tracks you selected in the order in which you programmed them. When the last track in the program has been played, the entire program will begin again.



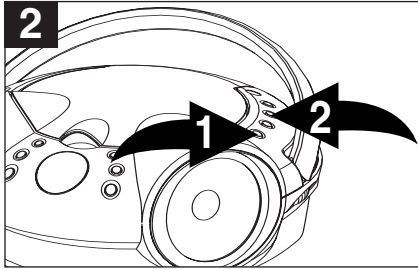
Programmed Repeat operation will continue indefinitely until you press the STOP (■) button, or turn the unit off.

OPERATING INSTRUCTIONS (CONTINUED)

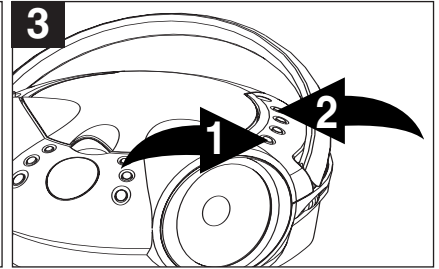
WAKE TO CD, RADIO OR BUZZER



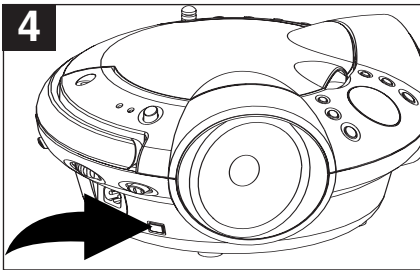
1 With the FUNCTION switch set to the CD, RADIO or BUZZER position, press and hold the ALARM SET button to enter the Alarm Set mode.



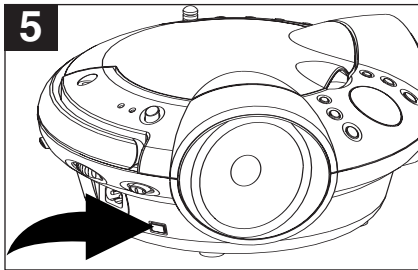
2 While holding the ALARM SET button ❶, press the HR SET button ❷ to adjust the hour.



3 While holding the ALARM SET button ❶, press the MINUTE SET button ❷ to adjust the minute. Release all buttons to complete alarm setting.



4 Press the ALARM ON/OFF button to enable the alarm feature; the Alarm indicator will appear in the display.



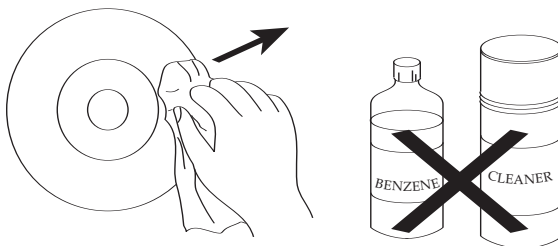
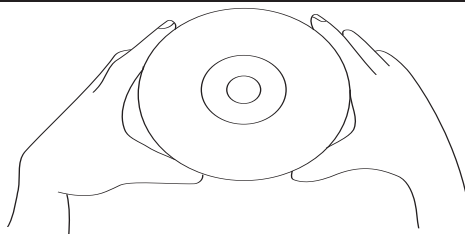
5 When the actual time matches the alarm time, the unit will sound. To stop, press the ALARM ON/OFF button once. To cancel the alarm, press the ALARM ON/OFF button twice; the alarm indicator will disappear from the display.

NOTE: Alarm and time setting cannot be done while in the Radio mode.

CARE AND MAINTENANCE

Caring for Compact Discs

- Treat the compact disc carefully. Handle the compact disc only by its edges. Never allow your fingers to come in contact with the shiny, unprinted side of the compact disc.
- Do not attach adhesive tape, stickers, etc. to the compact disc label.
- Clean the compact disc periodically with a soft, lint-free, dry cloth. Never use detergents or abrasive cleaners to clean the compact disc. If necessary, use a CD cleaning kit.
- If a compact disc skips or gets stuck on a section of the compact disc, it is probably dirty or damaged (scratched).
- When cleaning the compact disc, wipe in straight lines from the center of the compact disc to the outer edge of the compact disc. Never wipe in circular motions.



- This unit is designed to play only compact discs bearing the identification logo as shown here.
- Compact Discs should be stored in their cases after each use to avoid damage.
- Do not expose compact discs to direct sunlight, high humidity, high temperatures, or dust, etc. Prolonged exposure or extreme temperatures can warp the compact disc.
- Do not stick or write anything on either side of the compact disc. Sharp writing instruments, or the ink may damage the surface.



Cleaning the unit

- To prevent fire or shock hazard, disconnect your unit from the AC power source when cleaning.
- The finish on your unit may be cleaned with a dust cloth and cared for as other furniture. Use caution when cleaning and wiping the plastic parts.
- Mild soap and a damp cloth may be used on the front panel.

TROUBLESHOOTING GUIDE

Should this unit exhibit a problem, check the following before seeking service.

Symptom	Possible Cause	Solution
Radio		
Noise or sound distorted on radio broadcasts.	Station not tuned properly for AM or FM.	Retune the AM or FM broadcast station.
	FM: Telescopic antenna is not properly adjusted.	Reorient FM telescopic antenna.
	AM: Unit is not positioned correctly.	Rotate unit until best reception is obtained.
AM or FM, no sound.	FUNCTION switch not set to RADIO.	Set FUNCTION switch to RADIO.
	Volume at minimum.	Increase volume.
Compact Disc Player		
CD Player will not play.	FUNCTION switch not set to CD.	Set FUNCTION switch to CD.
	CD is not installed or installed upside-down.	Insert CD with label side up.
CD skips while playing.	Disc is dirty or scratched.	Wipe disc with cloth or use another disc.
General		
No sound.	Power cord disconnected.	Connect power cord.
	No batteries, or weak, dead or inserted incorrectly.	Insert fresh batteries correctly.



Emerson

AUTHORIZED SERVICE

TO FIND THE LOCATION AND PHONE NUMBER OF YOUR NEAREST AUTHORIZED SERVICE CENTER...

CALL TOLL FREE: 1-800-695-0098

FOR ADDITIONAL SET-UP OR OPERATING ASSISTANCE PLEASE CALL:
1-800-898-9020

FOR CUSTOMER SERVICE, PLEASE WRITE TO:
Emerson Radio Corp.
Consumer Affairs Dept.
1901 Diplomat Drive
Farmers Branch, TX 75234

LIMITED WARRANTY

Emerson Radio Corp. warrants manufacturing defects in original material, including original parts and workmanship, under normal use and conditions, for a period of ninety (90) days from the date of original purchase in the U.S. With your dated proof of purchase, we will provide repair service at no charge for labor and parts at an authorized Depot Repair Facility, or replace the product in our discretion. For repair or replacement, pack your unit in a padded box, enclose your check or money order payable to Emerson Radio Corp. in the amount of \$9.00 (not required by California residents) to cover shipping and handling costs, and enclose a copy of your proof of purchase. Send your unit to:

Emerson Radio Corp.
1901 Diplomat Drive.
Farmers Branch, TX 75234

This warranty does not cover damage from negligence, misuse, abuse, accident, failure to follow operating instructions, commercial use, rental, repairs by an unauthorized facility, or products purchased, used, serviced or damaged outside of the United States.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

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